The listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1.-153. (Canceled)

154. (Currently Amended) A method of manufacturing a semiconductor device comprising:

irradiating a semiconductor film formed over a substrate with a laser light elongated in one direction at an irradiation surface in an atmosphere containing oxygen in a first chamber;

transporting the substrate from the first chamber to a second chamber; and forming a gate insulating film on the semiconductor film in the second chamber, wherein the first chamber and the second chamber are connected with each other through a preliminary chamber.

- 155. (Previously Presented) A method of manufacturing a semiconductor device according to claim 154, wherein the second chamber is a portion of a sputtering apparatus.
- 156. (Previously Presented) A method of manufacturing a semiconductor device according to claim 154, wherein the laser comprises an excimer laser or a YAG laser.
- 157. (Currently Amended) A method of manufacturing a semiconductor device according to claim 154, wherein the laser light has a rectangular form at [[an]] said irradiation surface.

- 158. (Previously Presented) A method of manufacturing a semiconductor device according to claim 154, wherein the gate insulating film comprises a silicon oxide film.
- 159. (Currently Amended) A method of manufacturing a semiconductor device comprising:

irradiating a semiconductor film formed over a substrate with a laser light elongated in one direction at an irradiation surface in an atmosphere containing oxygen in a first chamber;

transporting the substrate from the first chamber to a second chamber; and forming a gate insulating film on the semiconductor film in the second chamber, wherein the step of forming the gate insulating film is conducted without exposing to air.

- 160. (Previously Presented) A method of manufacturing a semiconductor device according to claim 159, wherein the second chamber is a portion of a sputtering apparatus.
- 161. (Previously Presented) A method of manufacturing a semiconductor device according to claim 159, wherein the laser comprises an excimer laser or a YAG laser.
- 162. (Currently Amended) A method of manufacturing a semiconductor device according to claim 159, wherein the laser light has a rectangular form at [[an]] said irradiation surface.
- 163. (Previously Presented) A method of manufacturing a semiconductor device according to claim 159, wherein the gate insulating film comprises a silicon oxide film.

164. (Currently Amended) A method of manufacturing a semiconductor device comprising:

irradiating a semiconductor film formed over a substrate with a laser light elongated in one direction at an irradiation surface in an atmosphere containing oxygen in a first chamber;

transporting the substrate from the first chamber to a second chamber; and forming a gate insulating film on the semiconductor film in the second chamber, wherein the first chamber and the second chamber constitute a portion of a multichamber apparatus.

- 165. (Previously Presented) A method of manufacturing a semiconductor device according to claim 164, wherein the second chamber is a portion of a sputtering apparatus.
- 166. (Previously Presented) A method of manufacturing a semiconductor device according to claim 164, wherein the laser comprises an excimer laser or a YAG laser.
- 167. (Currently Amended) A method of manufacturing a semiconductor device according to claim 164, wherein the laser light has a rectangular form at [[an]] said irradiation surface.
- 168. (Previously Presented) A method of manufacturing a semiconductor device according to claim 164, wherein the gate insulating film comprises a silicon oxide film.
- 169. (Previously Presented) A method of manufacturing a semiconductor device comprising:

irradiating a semiconductor film formed over a substrate with a laser light in an atmosphere containing oxygen in a first chamber;

transporting the substrate from the first chamber to a second chamber; forming a gate insulating film on the semiconductor film in the second chamber; transporting the substrate from the second chamber to a third chamber; and performing a heat treatment in the third chamber,

wherein the first through the third chambers are connected with each other through a preliminary chamber.

- 170. (Previously Presented) A method of manufacturing a semiconductor device according to claim 169, wherein the second chamber is a portion of a sputtering apparatus.
- 171. (Previously Presented) A method of manufacturing a semiconductor device according to claim 169, wherein the laser comprises an excimer laser or a YAG laser.
- 172. (Previously Presented) A method of manufacturing a semiconductor device according to claim 169, wherein the laser light has a rectangular form at an irradiation surface.
- 173. (Previously Presented) A method of manufacturing a semiconductor device according to claim 169, wherein the heat treatment is conducted in an atmosphere containing hydrogen.
- 174. (Previously Presented) A method of manufacturing a semiconductor device according to claim 169, wherein the gate insulating film comprises a silicon oxide film.
- 175. (Previously Presented) A method of manufacturing a semiconductor device comprising:

irradiating a semiconductor film formed over a substrate with a laser light in an atmosphere containing oxygen in a first chamber;

transporting the substrate from the first chamber to a second chamber; forming a gate insulating film on the semiconductor film in the second chamber; transporting the substrate from the second chamber to a third chamber; and performing a heat treatment in the third chamber,

wherein the step of forming the gate insulating film is conducted without exposing to air.

- 176. (Previously Presented) A method of manufacturing a semiconductor device according to claim 175, wherein the second chamber is a portion of a sputtering apparatus.
- 177. (Previously Presented) A method of manufacturing a semiconductor device according to claim 175, wherein the laser comprises an excimer laser or a YAG laser.
- 178. (Previously Presented) A method of manufacturing a semiconductor device according to claim 175, wherein the laser light has a rectangular form at an irradiation surface.
- 179. (Previously Presented) A method of manufacturing a semiconductor device according to claim 175, wherein the heat treatment is conducted in an atmosphere containing hydrogen.
- 180. (Previously Presented) A method of manufacturing a semiconductor device according to claim 175, wherein the gate insulating film comprises a silicon oxide film.

181. (Previously Presented) A method of manufacturing a semiconductor device comprising:

irradiating a semiconductor film formed over a substrate with a laser light in an atmosphere containing oxygen in a first chamber;

transporting the substrate from the first chamber to a second chamber; forming a gate insulating film on the semiconductor film in the second chamber; transporting the substrate from the second chamber to a third chamber; and performing a heat treatment in the third chamber,

wherein the first through the third chambers constitute a portion of a multichamber apparatus.

- 182. (Previously Presented) A method of manufacturing a semiconductor device according to claim 181, wherein the second chamber is a portion of a sputtering apparatus.
- 183. (Previously Presented) A method of manufacturing a semiconductor device according to claim 181, wherein the laser comprises an excimer laser or a YAG laser.
- 184. (Previously Presented) A method of manufacturing a semiconductor device according to claim 181, wherein the laser light has a rectangular form at an irradiation surface.
- 185. (Previously Presented) A method of manufacturing a semiconductor device according to claim 181, wherein the heat treatment is conducted in an atmosphere containing hydrogen.
- 186. (Previously Presented) A method of manufacturing a semiconductor device according to claim 181, wherein the gate insulating film comprises a silicon oxide film.